### Code

### Output

```
40
```

## **Practice 2**

### Code

```
#include < stdio.h>

int main(void) {
    int x = 14, y = 5;
    y = x++ % 3;
    printf("%i\n", x);
    printf("%i\n", y);

8 }
```

## Output

```
15
2
```

## **Practice 3**

### Code

```
#include < stdio.h>

int main(void) {
    int x = 3, y = 5;
    y *= 12 / ++x;
    printf("%i\n", x);
    printf("%i\n", y);

8 }
```

## Output

```
4
15
```

### Code

```
#include<stdio.h>
 1
 2
    int main(void){
 3
         int x = 10, y = 20, z = 30;
 4
 5
         x *= y += ++z;
 6
 7
         printf("\%i\n", x);
         printf("%i\n", y);
printf("%i\n", z);
 8
 9
10
    }
```

## Output

```
510
51
31
```

# **Practice 5**

### Code

```
#include < stdio.h>

int main(void) {
    int x = 10, y;
    y = x++ + ++x;

printf("%i\n", x);
printf("%i\n", y);
}
```

## Output

```
12
22
```

## **Practice 6**

#### Code

```
#include < stdio . h>
1
2
3
   int main(void){
4
        int x = 8, y;
5
       y = \sim x;
6
7
        printf("\%i\n", x);
        printf("%i\n", y);
8
9
   }
```

## **Output**

```
8
-9
```

### Code

```
#include<stdio.h>
1
2
    int main(void){
3
        int x = 8, y = 6, p, q, r;
4
        p = x \& y;
5
        q = x \mid y;
6
7
        r = x \wedge y;
8
        printf("%i\n", p);
9
        printf("\%i\n", q);
10
        printf("%i\n", r);
11
12
```

### Output

```
0
14
14
```

## **Practice 8**

### Code

```
#include < stdio . h>
1
 2
    int main(void){
 3
         int x = 8, y = 12, z;
 4
         z = x << y / 4;
 5
         y >>= x / 4;
 6
 7
         printf("\%i\n", x);
 8
         printf("%i\n", y);
printf("%i\n", z);
9
10
11
```

## Output

```
8
3
64
```

## **Practice 9**

### Code

## Output

Fail

#### Code

```
#include < stdio . h>
1
2
    int main(void){
3
        int x, y, sum;
4
        float avg;
5
6
7
        printf("Number 1: ");
        scanf("%i", &x);
8
        printf("Number 2: ");
9
        scanf("%i", &y);
10
        printf("\n");
11
12
13
        sum = x + y;
        avg = (float) sum / 2;
14
15
        printf("Sum = \%i \n", sum);
16
        printf("Average = \%.2 f \ n", avg);
17
18
```

### Output

```
$ Number 1: 5
$ Number 2: 10
Sum = 15
Average = 7.50
```

### **Practice 11**

#### Code

```
#include < stdio . h>
1
2
   int main(void){
3
        const float pi = 3.14159;
4
        int radius, diameter;
5
        float circum, area;
6
7
        printf("Radius: ");
8
        scanf("%i", &radius);
9
10
        diameter = radius * 2;
11
        circum = pi * (float) diameter;
12
        area = pi * radius * radius;
13
14
        printf("Diameter = %i\n",
15

    diameter);
        printf("Circumference = %.2f\n",
16

    circum);

        printf("Area = \%.2 f \n", area);
17
18
```

## Output

```
$ Radius: 5
Diameter = 10
Circumference = 31.42
Area = 78.54
```